

AMENDMENTS TO THE CLAIMS

1 to 9. (Cancelled)

10. (New) An ultra fine grain steel having a nitride layer, wherein the steel has a ferrite grain structure having an average grain size of 3 μm or less, the nitride layer is formed on a surface of the steel and its thickness is from 0.5 mm to 1 mm, a chemical composition of the steel is one which contains C, Mn and the rest consisting of Fe and inevitable impurities or another which contains C, Mn and Si and the rest consisting of Fe and inevitable impurities, in both of which an amount of C is 0.05 mass% or more and an amount of Mn is 0.83 mass% or more, and fatigue limit of the steel is 1.6 times larger than Vickers hardness of a base material.

11. (New) The ultra fine grain steel having a nitride layer as claimed in claim 10, wherein the steel has a ferrite grain structure having an average grain size of 1 μm or less, a chemical composition of the steel contains C, Mn and Si and the rest consisting of Fe and inevitable impurities, in which an amount of C is from 0.45 mass% to 0.90 mass%.

12. (New) The ultra fine grain steel having a nitride layer as claimed in claim 11, wherein P is added at 0.035 mass% or more.

13. (New) A molded part, a part, or a member which is formed from the ultra fine grain steel having nitride layer as claimed in claim 10.